Fall 2010 ‘Sustainability’ Courses

This document contains a listing of ‘sustainability-focused’ and ‘sustainability-related’ courses offered at UT Knoxville in fall 2010.

**Sustainability-focused courses** concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens.

**Sustainability-related courses** incorporate sustainability as a distinct course component or module, or concentrate on a single sustainability principle or issue (socioeconomics, environment concerns, etc.).

This list was derived from the online UT Knoxville course catalog, available at [http://catalog.utk.edu/](http://catalog.utk.edu/). Course descriptions may be accessed by clicking on hyperlinks.

Please email comments and corrections by September 1, 2010 to environment@utk.edu

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**Sustainability-Focused Courses**

**(AGEC) Agricultural Economics (047)**

- AGEC 445 - Economics of Biomass for Renewable Energy

**(ARCH) Architecture (133)**

- ARCH 232 - Introduction to Architectural Technology
- ARCH 341 - Environmental Control Systems I
- ARCH 342 - Environmental Control Systems II
- ARCH 372 - Architectural Design IV
- ARCH 471 - Architectural Design V: Integration
- ARCH 271 - Architectural Design I: Place
- ARCH 431 - Structural and Mechanical Applications
- ARCH 486 - Advanced Architectural Design: Sustainable Architecture

**(CBE) Chemical and Biomolecular Engineering (223)**

- CBE 481 - Green Engineering
- CBE 488 - Honors: Design Internship in Green Engineering

**(ECON) Economics (283)**

- ECON 362 - Environmental and Natural Resource Policy
- ECON 463 - Environmental Economics

**(GEOG) Geography (415)**

- GEOG 345 - Population and Environment
(GEOL) Geology (424)

- GEOL 456 - Global Climate Change
- *GEOL 103 - The Earth's Environments

(HRT) Hotel, Restaurant, and Tourism (514)

- HRT 224 - Tourism Management

(PHIL) Philosophy (745)

- PHIL 241 - Engineering Ethics
- PHIL 242 - Contemporary Moral Issues
- PHIL 243 - Business Ethics
- PHIL 245/445 - Environmental Ethics/Advanced Environmental Ethics
- PHIL 393 - Global Justice and Human Rights

(PLSC) Plant Sciences (791)

- PLSC 250 - World Food and Fiber Plant Production
- PLSC 341 - Integrated Turfgrass Management and Environmental Benefits

(POLS) Political Science (801)

- POLS 471 - International Political Economy
- POLS 473 - Negotiation, Bargaining, and Diplomacy

(SOCI) Sociology (915)

- SOCI 250 - Introduction to Global Studies
- SOCI 260 - Introduction to the Study of Environmental Issues
- SOCI 360 - Environment and Resources

**Sustainability-Related Courses**

(AGEC) Agricultural Economics (047)

- AGEC 315 - Agricultural and Environmental Law
- AGEC 471 - Applied Policy Analysis for Environmental and Natural Resource Management

(ANTH) Anthropology (122)

- ANTH 415 - Environmental Anthropology
- ANTH 432 - Anthropology of Warfare and Violence

(BCMB) Biochemistry and Cellular and Molecular Biology (188)

Prepared by Gordie Bennett, Sustainability Manager on 8/11/10
• BCMB 321 - Introductory Plant Physiology

(BIOL) Biology (190)

• BIOL 102 - Humankind in the Biotic World • BIOL 112 - General Botany • BIOL 250 - General Ecology

(BSE) Biosystems Engineering (196)

• BSE 416 - Environmental Hydrology

(BSET) Biosystems Engineering Technology (194)

• BSET 326 - GIS/GPS Applications in Agriculture and Environmental Science • BSET 414 - CAD Applications to Biosystems Engineering Technology • BSET 474 - Environmental Instrumentation and Monitoring

(CBE) Chemical and Biomolecular Engineering (223)

• CBE 475 - Applied Microbiology and Bioengineering

(CE) Civil Engineering (254)

• CE 381 - Environmental Engineering I • CE 401 - Review of Engineering Fundamentals • CE 407 - Honors Undergraduate Research • CE 409 - Special Topics • CE 440 - Civil Engineering Systems Design and Management • CE 481 - Environmental Engineering II • CE 482 - Environmental Engineering Laboratory • CE 486 - Air and Waste Management • CE 490 - Water Resources Applications • CE 210 - Geomatics

(EEB) Ecology and Evolutionary Biology (278)

• EEB 421 - Community Ecology • EEB 405 - Ecosystem Ecology Laboratory

(EPP) Entomology and Plant Pathology (341)

• EPP 410 - Diseases and Insects of Ornamental Plants

(ESS) Environmental and Soil Sciences (345)

• ESS 120 - Soils and Civilizations • ESS 434 - Environmental Soil Chemistry • ESS 444 - Environmental Soil Physics • ESS 454 - Environmental Soil Biology • ESS 462 - Environmental Climatology • ESS 493 - Problems in Environmental and Soil Sciences • ESS 334 - Soil Nutrient Management and Fertilizers

Prepared by Gordie Bennett, Sustainability Manager on 8/11/10
(FDST) Food Science and Technology (390)

- FDST 420 - Food Microbiology

(FORS) Forestry (396)

- FORS 331 - Wood Properties and Uses
- FORS 414 - Tree Physiology
- FORS 415 - Forest Conservation Workshop
- FORS 215 - Forest Ecology

(GEOG) Geography (415)

- GEOG 131 - Geography of the Natural Environment I
- GEOG 132 - Geography of the Natural Environment II

(GEOL) Geology (424)

- GEOL 455 - Basic Environmental Geology
- GEOL 102 - Earth, Life, and Time
- GEOL 108 - Honors: Earth, Life, and Time

(IE) Industrial Engineering (556)

- IE 304 - Introduction to Human Factors Engineering
- IE 422 - Senior Problems Analysis

(IDS) Interior Design (582)

- IDS 200 - Human-Environment Systems

(JREM) Journalism and Electronic Media (592)

- JREM 451 - Environmental Writing

(MICR) Microbiology (684)

- MICR 470 - Microbial Ecology

(MSE) Materials Science and Engineering (638)

- MSE 470 - Environmental Degradation of Materials

(NURS) Nursing (720)

- NURS 432 - Health Promotion and Maintenance Strategies in the Community

(PLSC) Plant Sciences (791)

Prepared by Gordie Bennett, Sustainability Manager on 8/11/10
• PLSC 210 - Horticulture: Principles and Practices • PLSC 330 - Plant Propagation • PLSC 421 - Native Plants in the Landscape • PLSC 430 - Greenhouse Management • PLSC 457 - Weed Management • PLSC 470 - Professional Practices for the Green Industry

(RCS) Retail and Consumer Sciences (865)

• RCS 421 - International Retailing

(SOWK) Social Work (905)

• SOWK 314/317 - Human Behavior and the Social Environment/Honors: Human Behavior in the Social Environment

(SOCI) Sociology (915)

• SOCI 110 - Social Justice and Social Change • SOCI 464 - Urban Ecology • SOCI 465 - Social Values and the Environment

(WFS) Wildlife and Fisheries Science (993)

• WFS 301 - Ecology and Management of Wildlife Health